Notice of Allowability	Application No.	Applicant(s)	
	10/613,784	OHLSEN, LEROY J.	
	Examiner	Art Unit	
	Jonathan S. Crepeau	1746	
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this or other appropriate communicat GHTS. This application is subject	application. If not included	TIU0
1. This communication is responsive to preliminary amendme	nt of 8/19/04.		
2. The allowed claim(s) is/are 66-74.			
3. The drawings filed on 07 July 2003 are accepted by the Ex	aminer.		
4. Acknowledgment is made of a claim for foreign priority un  a) All b) Some* c) None of the:  1. Certified copies of the priority documents have  2. Certified copies of the priority documents have  3. Copies of the certified copies of the priority documents have  International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONMETHIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which gives (a) including changes required by the Notice of Draftsperson (b) hereto or 2) to Paper No./Mail Date  (b) including changes required by the attached Examiner's Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in the care of the priority documents and the deposite attached Examiner's comment regarding REQUIREMENT F.	been received. been received in Application No. cuments have been received in the of this communication to file a rep ENT of this application.  Ited. Note the attached EXAMINE is reason(s) why the oath or declar be submitted. On's Patent Drawing Review ( PTo Amendment / Comment or in the Ad(c)) should be written on the draw it of BIOLOGICAL MATERIAL	ely complying with the requirent earlier of the requirement earlier of the required earlier of the requirement earli	nents E OF
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date	6. ⊠ Interview Summar Paper No./Mail D ), 7. ⊠ Examiner's Amend	ate .	

## **DETAILED ACTION**

## Examiner's Amendment

- 1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 2. Authorization for this examiner's amendment was given in a telephone interview with Thomas Loop on October 14, 2004.

The application has been amended as follows:

# IN THE CLAIMS:

Amend claims 66 and 69 as follows:

66. (currently amended) An electrode adapted for use with a fuel cell, comprising: a support structure derived from a silicon substrate, wherein the support structure has a plurality of porous regions that define pore surfaces, and wherein the pore surfaces have a catalyst dispersed thereon such that the catalyst is noncontigously dispersed throughout the plurality of porous regions.

69. (currently amended) An electrode adapted for use with a fuel cell, comprising: a support structure derived from a silicon substrate, wherein the support structure has a plurality of parallel pores that extend through the support structure, and wherein the plurality of parallel pores define pore surfaces, and wherein at least a portion of the pore surfaces carries a catalyst thereon, and wherein the plurality of parallel pores are random.

Cancel claims 75 and 76.

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#### Terminal Disclaimer

3. The terminal disclaimer filed on October 12, 2004 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of U.S. Patent No. 6,641,948 has been reviewed and is accepted. The terminal disclaimer has been recorded.

### Allowable Subject Matter

- 4. Claims 66-74 are allowed.
- 5. The following is an examiner's statement of reasons for allowance:

DE 19820756 is the closest prior art to independent claim 66; however, this reference has been antedated by the declaration under 37 CFR 1.131 filed in the parent application (09/715,830). As such, claim 66 is allowable.

Independent claim 69 recites, among other features, that the silicon substrate comprises a plurality of parallel pores that are randomly oriented. Lehmann et al (U.S. Patent No. 5,262,021), the closest prior art, discloses a silicon substrate comprising a plurality of parallel pores. However, the reference does not teach or fairly suggest that the pores should be random, because the reference teaches that a number of advantages arise from the *regular* order of the pores (see col. 2, line 65 et seq.). As such, claim 69 is allowable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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### Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: DE 19757320 (discloses etching to create an open porosity in a silicon electrode substrate).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jonathan Crepeau whose telephone number is (571) 272-1299. The examiner can normally be reached Monday-Friday from 9:30 AM - 6:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Barr, can be reached at (571) 272-1414. The phone number for the organization where this application or proceeding is assigned is (571) 272-1700. Documents may be faxed to the central fax server at (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jonathan Crepeau Primary Examiner Art Unit 1746 October 20, 2004